

Sequence Listing

<110> Botstein,David

Desnoyers,Luc

Ferrara,Napoleone

Fong,Sherman

Gao,Wei-Qiang

Goddard,Audrey

Gurney,Austin L.

Pan,James

Roy,Margaret Ann

Stewart,Timothy A.

Tumas,Daniel

Watanabe,Colin K.

Wood,William I.

<120> Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

<130> P2930R1C2

<150> 60/095,325

<151> 1998-08-04

<150> 60/112,851

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<141> 2001-05-25

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35 40 45
Phe Ala Ile Ala Arg Arg Leu Ala Gln Asp Gly Ala His Val Val
50 55 60
Val Ser Ser Arg Lys Gln Gln Asn Val Asp Gln Ala Val Ala Thr
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Leu	His	Gly	Gly	Ile	Asp	Ile	Leu	Val	Ser	Asn	Ala	Ala	Val	Asn	
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Pro	Phe	Phe	Gly	Ser	Ile	Met	Asp	Val	Thr	Glu	Glu	Val	Trp	Asp	
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Ala	Val	Val	Pro	Glu	Met	Glu	Lys	Arg	Gly	Gly	Gly	Ser	Val	Val	
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Ile	Val	Ser	Ser	Ile	Ala	Ala	Phe	Ser	Pro	Ser	Pro	Gly	Phe	Ser	
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Pro	Tyr	Asn	Val	Ser	Lys	Thr	Ala	Leu	Leu	Gly	Leu	Thr	Lys	Thr	
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Ala	Pro	Gly	Leu	Ile	Lys	Thr	Ser	Phe	Ser	Arg	Met	Leu	Trp	Met	
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Asp	Lys	Glu	Lys	Glu	Glu	Ser	Met	Lys	Glu	Thr	Leu	Arg	Ile	Arg	
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Arg	Leu	Gly	Glu	Pro	Glu	Asp	Cys	Ala	Gly	Ile	Val	Ser	Phe	Leu	
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Cys	Ser	Glu	Asp	Ala	Ser	Tyr	Ile	Thr	Gly	Glu	Thr	Val	Val	Val	
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Leu	Met	Gln	Glu	Lys 440	Thr	Gly	Leu	Glu	Ser 445	Lys	Arg	Leu	Arg	Ser 450
Ser	Gln	Ala	Leu	Asn 455	Glu	Asp	Ile	Val	Arg 460	Val	Ser	Ser	Arg	Leu 465
Glu	His	Leu	Glu	Lys 470	Glu	Leu	Ser	Glu	Lys 475	Ser	Gly	Gln	Leu	Arg 480
Gln	Gly	Ser	Ala	Gln 485	Ser	Gln	Gln	Gln	Ile 490	Arg	Gly	Glu	Ile	Asp 495
Ser	Leu	Arg	Gln	Glu 500	Lys	Asp	Ser	Leu	Leu 505	Lys	Gln	Arg	Leu	Glu 510
Ile	Asp	Gly	Lys	Leu 515	Arg	Gln	Gly	Ser	Leu 520	Leu	Ser	Pro	Glu	Glu 525
Glu	Arg	Thr	Leu	Phe 530	Gln	Leu	Asp	Glu	Ala 535	Ile	Glu	Ala	Leu	Asp 540
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Val	Leu	Arg	Ala	Ser 560	Ala	Ser	Leu	Leu	Ser 565	Gln	Cys	Glu	Met	Asn 570
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Leu	Trp	Leu	Ser	Pro	Leu	Thr	Glu	Gly	Ala	Pro	Arg	Thr	Arg	Glu
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Glu	Thr	Arg	Asp	Leu	Val	His	Ala	Pro	Leu	Pro	Leu	Thr	Trp	Lys
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Val	Gly	Glu	Ala	Gly	Leu	Pro	Trp	Asn	Phe	Gly	Pro	Leu	Ser	Lys
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Pro	Arg	Arg	Glu	Leu	Arg	Arg	Ala	Ser	Pro	Gly	Met	Ile	Asp	Val
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 35 40 45
 Lys Ile Tyr Asn Pro Ser Glu Gln Cys Cys Tyr Asp Asp Ala Ile
 50 55 60
 Leu Ser Leu Lys Glu Thr Arg Arg Cys Gly Ser Thr Cys Thr Phe
 65 70 75
 Trp Pro Cys Phe Glu Leu Cys Cys Pro Glu Ser Phe Gly Pro Gln
 80 85 90
 Gln Lys Phe Leu Val Lys Leu Arg Val Leu Gly Met Lys Ser Gln
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35 40 45
Glu Lys Arg Glu His Ala Thr Arg Asp Gly Pro Gly Arg Val Asn
50 55 60
Glu Leu Gly Arg Pro Ala Arg Asp Glu Gly Gly Ser Gly Arg Asp
65 70 75
Trp Lys Ser Lys Ser Gly Arg Gly Leu Ala Gly Arg Glu Pro Trp
80 85 90
Ser Lys Leu Lys Gln Ala Trp Val Ser Gln Gly Gly Gly Ala Lys
95 100 105
Ala Gly Asp Leu Gln Val Arg Pro Arg Gly Asp Thr Pro Gln Ala
110 115 120
Glu Ala Leu Ala Ala Ala Ala Gln Asp Ala Ile Gly Pro Glu Leu
125 130 135
Ala Pro Thr Pro Glu Pro Pro Glu Glu Tyr Val Tyr Pro Asp Tyr
140 145 150
Arg Gly Lys Gly Cys Val Asp Glu Ser Gly Phe Val Tyr Ala Ile
155 160 165
Gly Glu Lys Phe Ala Pro Gly Pro Ser Ala Cys Pro Cys Leu Cys
170 175 180
Thr Glu Glu Gly Pro Leu Cys Ala Gln Pro Glu Cys Pro Arg Leu
185 190 195
His Pro Arg Cys Ile His Val Asp Thr Ser Gln Cys Cys Pro Gln
200 205 210
Cys Lys Glu Arg Lys Asn Tyr Cys Glu Phe Arg Gly Lys Thr Tyr
215 220 225
Gln Thr Leu Glu Glu Phe Val Val Ser Pro Cys Glu Arg Cys Arg

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245	250	255
Gln Thr Glu Cys Val Asp Pro Val Tyr Glu Pro Asp Gln Cys Cys		
260	265	270
Pro Ile Cys Lys Asn Gly Pro Asn Cys Phe Ala Glu Thr Ala Val		
275	280	285
Ile Pro Ala Gly Arg Glu Val Lys Thr Asp Glu Cys Thr Ile Cys		
290	295	300
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<400> 13
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35 40 45
Asn Thr Ser Cys Asp Ser Gly Leu Gly Cys Gln Asp Thr Leu Met
50 55 60
Leu Ile Glu Ser Gly Pro Gln Val Ser Leu Val Leu Ser Lys Gly
65 70 75
Cys Thr Glu Ala Lys Asp Gln Glu Pro Arg Val Thr Glu His Arg
80 85 90
Met Gly Pro Gly Leu Ser Leu Ile Ser Tyr Thr Phe Val Cys Arg
95 100 105
Gln Glu Asp Phe Cys Asn Asn Leu Val Asn Ser Leu Pro Leu Trp
110 115 120
Ala Pro Gln Pro Pro Ala Asp Pro Gly Ser Leu Arg Cys Pro Val
125 130 135
Cys Leu Ser Met Glu Gly Cys Leu Glu Gly Thr Thr Glu Glu Ile
140 145 150
Cys Pro Lys Gly Thr Thr His Cys Tyr Asp Gly Leu Leu Arg Leu
155 160 165
Arg Gly Gly Gly Ile Phe Ser Asn Leu Arg Val Gln Gly Cys Met
170 175 180
Pro Gln Pro Gly Cys Asn Leu Leu Asn Gly Thr Gln Glu Ile Gly
185 190 195
Pro Val Gly Met Thr Glu Asn Cys Asn Arg Lys Asp Phe Leu Thr
200 205 210
Cys His Arg Gly Thr Thr Ile Met Thr His Gly Asn Leu Ala Gln
215 220 225
Glu Pro Thr Asp Trp Thr Thr Ser Asn Thr Glu Met Cys Glu Val

100344-100344

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Arg Gln Asp Met Arg Gln Leu Ala Leu	Arg Leu Ala Ser Leu Phe	
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Pro Ala Leu Phe Ser Arg Glu Asn Tyr	Gly Arg Leu Arg Leu Ile	
170	175	180
Thr Ser Ser Lys His Arg Cys Met Asp	Ser Ser Ala Ala Phe Leu	
185	190	195
Gln Gly Leu Trp Gln His Tyr His Pro	Gly Leu Pro Pro Pro Asp	
200	205	210
Val Ala Asp Met Glu Phe Gly Pro Pro	Thr Val Asn Asp Lys Leu	
215	220	225
Met Arg Phe Phe Asp His Cys Glu Lys	Phe Leu Thr Glu Val Glu	
230	235	240
Lys Asn Ala Thr Ala Leu Tyr His Val	Glu Ala Phe Lys Thr Gly	
245	250	255
Pro Glu Met Gln Asn Ile Leu Lys Lys	Val Ala Ala Thr Leu Gln	
260	265	270
Val Pro Val Asn Asp Leu Asn Ala Asp	Leu Ile Gln Val Ala Phe	
275	280	285
Phe Thr Cys Ser Phe Asp Leu Ala Ile	Lys Gly Val Lys Ser Pro	
290	295	300
Trp Cys Asp Val Phe Asp Ile Asp Asp	Ala Lys Val Leu Glu Tyr	
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Ile Asn Ser Arg Ser Ser Cys Thr Leu	Phe Gln Asp Ile Phe Gln	
335	340	345
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Pro Leu Leu Ser Leu Met Gly Tyr Phe	Lys Asp Lys Glu Pro Leu	
380	385	390
Thr Ala Tyr Asn Tyr Lys Lys Gln Met	His Arg Lys Phe Arg Ser	
395	400	405

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Gly Lys Pro Gly	Ala Asp Gly Gly Ser	Leu Glu Ala Val Arg	Leu
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Gly Pro Ser Ser	Gly Leu Leu Val Asp	Trp Leu Glu Met Leu	Asp
	455	460	465
Pro Glu Val Val	Ser Ser Cys Pro Asp	Leu Gln Leu Arg Leu	Leu
	470	475	480
Phe Ser Arg Arg	Lys Gly Lys Gly Gln	Ala Gln Val Pro Ser	Phe
	485	490	495
Arg Pro Tyr Leu	Leu Thr Leu Phe Thr	His Gln Ser Ser Trp	Pro
	500	505	510
Thr Leu His Gln	Cys Ile Arg Val Leu	Leu Gly Lys Ser Arg	Glu
	515	520	525
Gln Arg Phe Asp	Pro Ser Ala Ser Leu	Asp Phe Leu Trp Ala	Cys
	530	535	540
Ile His Val Pro	Arg Ile Trp Gln Gly	Arg Asp Gln Arg Thr	Pro
	545	550	555
Gln Lys Arg Arg	Glu Glu Leu Val Leu	Arg Val Gln Gly Pro	Glu
	560	565	570
Leu Ile Ser Leu	Val Glu Leu Ile Leu	Ala Glu Ala Glu Thr	Arg
	575	580	585
Ser Gln Asp Gly	Asp Thr Ala Ala Cys	Ser Leu Ile Gln Ala	Arg
	590	595	600
Leu Pro Leu Leu	Leu Ser Cys Cys Cys	Gly Asp Asp Glu Ser	Val
	605	610	615
Arg Lys Val Thr	Glu His Leu Ser Gly	Cys Ile Gln Gln Trp	Gly
	620	625	630
Asp Ser Val Leu	Gly Arg Arg Cys Arg	Asp Leu Leu Leu Gln	Leu
	635	640	645
Tyr Leu Gln Arg	Pro Glu Leu Arg Val	Pro Val Pro Glu Val	Leu
	650	655	660
Leu His Ser Glu	Gly Ala Ala Ser Ser	Ser Val Cys Lys Leu	Asp
	665	670	675
Gly Leu Ile His	Arg Phe Ile Thr Leu	Leu Ala Asp Thr Ser	Asp
	680	685	690

Ser Arg Ala Leu Glu Asn Arg Gly Ala Asp Ala Ser Met Ala Cys	695	700	705
Arg Lys Leu Ala Val Ala His Pro Leu Leu Leu Arg His Leu	710	715	720
Pro Met Ile Ala Ala Leu Leu His Gly Arg Thr His Leu Asn Phe	725	730	735
Gln Glu Phe Arg Gln Gln Asn His Leu Ser Cys Phe Leu His Val	740	745	750
Leu Gly Leu Leu Glu Leu Leu Gln Pro His Val Phe Arg Ser Glu	755	760	765
His Gln Gly Ala Leu Trp Asp Cys Leu Leu Ser Phe Ile Arg Leu	770	775	780
Leu Leu Asn Tyr Arg Lys Ser Ser Arg His Leu Ala Ala Phe Ile	785	790	795
Asn Lys Phe Val Gln Phe Ile His Lys Tyr Ile Thr Tyr Asn Ala	800	805	810
Pro Ala Ala Ile Ser Phe Leu Gln Lys His Ala Asp Pro Leu His	815	820	825
Asp Leu Ser Phe Asp Asn Ser Asp Leu Val Met Leu Lys Ser Leu	830	835	840
Leu Ala Gly Leu Ser Leu Pro Ser Arg Asp Asp Arg Thr Asp Arg	845	850	855
Gly Leu Asp Glu Glu Gly Glu Glu Glu Ser Ser Ala Gly Ser Leu	860	865	870
Pro Leu Val Ser Val Ser Leu Phe Thr Pro Leu Thr Ala Ala Glu	875	880	885
Met Ala Pro Tyr Met Lys Arg Leu Ser Arg Gly Gln Thr Val Glu	890	895	900
Asp Leu Leu Glu Val Leu Ser Asp Ile Asp Glu Met Ser Arg Arg	905	910	915
Arg Pro Glu Ile Leu Ser Phe Phe Ser Thr Asn Leu Gln Arg Leu	920	925	930
Met Ser Ser Ala Glu Glu Cys Cys Arg Asn Leu Ala Phe Ser Leu	935	940	945
Ala Leu Arg Ser Met Gln Asn Ser Pro Ser Ile Ala Ala Ala Phe	950	955	960
Leu Pro Thr Phe Met Tyr Cys Leu Gly Ser Gln Asp Phe Glu Val	965	970	975
Val Gln Thr Ala Leu Arg Asn Leu Pro Glu Tyr Ala Leu Leu Cys			

980

985

990

Gln Glu His Ala Ala Val Leu Leu His Arg Ala Phe Leu Val Gly
 995 1000 1005

Met Tyr Gly Gln Met Asp Pro Ser Ala Gln Ile Ser Glu Ala Leu
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Arg Ile Leu His Met Glu Ala Val Met
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<211> 2186

<212> DNA

<213> Homo sapiens

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 acgttggtgga cgtttaccag cgggagttcc tggcgctgcg cgatcggttg 200
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<211> 548
<212> PRT
<213> Homo sapiens

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Leu	Arg	Asp	Arg	Leu	His	Ala	Ala	Glu	Gln	Glu	Ser	Leu	Lys	Arg		50	55	60
Ser	Lys	Glu	Leu	Asn	Leu	Val	Leu	Asp	Glu	Ile	Lys	Arg	Ala	Val		65	70	75
Ser	Glu	Arg	Gln	Ala	Leu	Arg	Asp	Gly	Asp	Gly	Asn	Arg	Thr	Trp		80	85	90
Gly	Arg	Leu	Thr	Glu	Asp	Pro	Arg	Leu	Lys	Pro	Trp	Asn	Gly	Ser		95	100	105
His	Arg	His	Val	Leu	His	Leu	Pro	Thr	Val	Phe	His	His	Leu	Pro		110	115	120
His	Leu	Leu	Ala	Lys	Glu	Ser	Ser	Leu	Gln	Pro	Ala	Val	Arg	Val		125	130	135
Gly	Gln	Gly	Arg	Thr	Gly	Val	Ser	Val	Val	Met	Gly	Ile	Pro	Ser		140	145	150
Val	Arg	Arg	Glu	Val	His	Ser	Tyr	Leu	Thr	Asp	Thr	Leu	His	Ser		155	160	165
Leu	Ile	Ser	Glu	Leu	Ser	Pro	Gln	Glu	Lys	Glu	Asp	Ser	Val	Ile		170	175	180
Val	Val	Leu	Ile	Ala	Glu	Thr	Asp	Ser	Gln	Tyr	Thr	Ser	Ala	Val		185	190	195
Thr	Glu	Asn	Ile	Lys	Ala	Leu	Phe	Pro	Thr	Glu	Ile	His	Ser	Gly		200	205	210
Leu	Leu	Glu	Val	Ile	Ser	Pro	Ser	Pro	His	Phe	Tyr	Pro	Asp	Phe		215	220	225
Ser	Arg	Leu	Arg	Glu	Ser	Phe	Gly	Asp	Pro	Lys	Glu	Arg	Val	Arg		230	235	240
Trp	Arg	Thr	Lys	Gln	Asn	Leu	Asp	Tyr	Cys	Phe	Leu	Met	Met	Tyr		245	250	255
Ala	Gln	Ser	Lys	Gly	Ile	Tyr	Tyr	Val	Gln	Leu	Glu	Asp	Asp	Ile		260	265	270
Val	Ala	Lys	Pro	Asn	Tyr	Leu	Ser	Thr	Met	Lys	Asn	Phe	Ala	Leu		275	280	285
Gln	Gln	Pro	Ser	Glu	Asp	Trp	Met	Ile	Leu	Glu	Phe	Ser	Gln	Leu		290	295	300
Gly	Phe	Ile	Gly	Lys	Met	Phe	Lys	Ser	Leu	Asp	Leu	Ser	Leu	Ile		305	310	315
Val	Glu	Phe	Ile	Leu	Met	Phe	Tyr	Arg	Asp	Lys	Pro	Ile	Asp	Trp				

				320					325					330
Leu	Leu	Asp	His	Ile 335	Leu	Trp	Val	Lys	Val 340	Cys	Asn	Pro	Glu	Lys 345
Asp	Ala	Lys	His	Cys 350	Asp	Arg	Gln	Lys	Ala 355	Asn	Leu	Arg	Ile	Arg 360
Phe	Lys	Pro	Ser	Leu 365	Phe	Gln	His	Val	Gly 370	Thr	His	Ser	Ser	Leu 375
Ala	Gly	Lys	Ile	Gln 380	Lys	Leu	Lys	Asp	Lys 385	Asp	Phe	Gly	Lys	Gln 390
Ala	Leu	Arg	Lys	Glu 395	His	Val	Asn	Pro	Pro 400	Ala	Glu	Val	Ser	Thr 405
Ser	Leu	Lys	Thr	Tyr 410	Gln	His	Phe	Thr	Leu 415	Glu	Lys	Ala	Tyr	Leu 420
Arg	Glu	Asp	Phe	Phe 425	Trp	Ala	Phe	Thr	Pro 430	Ala	Ala	Gly	Asp	Phe 435
Ile	Arg	Phe	Arg	Phe 440	Phe	Gln	Pro	Leu	Arg 445	Leu	Glu	Arg	Phe	Phe 450
Phe	Arg	Ser	Gly	Asn 455	Ile	Glu	His	Pro	Glu 460	Asp	Lys	Leu	Phe	Asn 465
Thr	Ser	Val	Glu	Val 470	Leu	Pro	Phe	Asp	Asn 475	Pro	Gln	Ser	Asp	Lys 480
Glu	Ala	Leu	Gln	Glu 485	Gly	Arg	Thr	Ala	Thr 490	Leu	Arg	Tyr	Pro	Arg 495
Ser	Pro	Asp	Gly	Tyr 500	Leu	Gln	Ile	Gly	Ser 505	Phe	Tyr	Lys	Gly	Val 510
Ala	Glu	Gly	Glu	Val 515	Asp	Pro	Ala	Phe	Gly 520	Pro	Leu	Glu	Ala	Leu 525
Arg	Leu	Ser	Ile	Gln 530	Thr	Asp	Ser	Pro	Val 535	Trp	Val	Ile	Leu	Ser 540
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<400> 25

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 <210> 27
 <211> 19
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 <213> Artificial Sequence

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 <223> Synthetic Oligonucleotide Probe

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 <210> 28
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 <220>
 <223> Synthetic Oligonucleotide Probe

 <400> 28
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 <210> 30
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 <400> 30
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 <210> 31
 <211> 25
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<223> Synthetic Oligonucleotide Probe

<400> 36

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<210> 37

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<223> Synthetic Oligonucleotide Probe

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<210> 38

<211> 28

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Oligonucleotide Probe

<400> 38

cataaagtag tatatgcatt ccagtgtt 28

TOGETHER